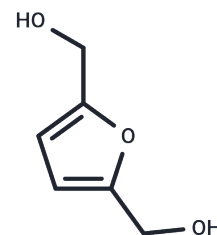


2,5-Furandimethanol

Chemical Properties

CAS No. :	1883-75-6
Formula:	C ₆ H ₈ O ₃
Molecular Weight:	128.13
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	2,5-Furandimethanol (BHMf) is a versatile furan derivative with significant applications in both material and biological sciences. In polymer chemistry, it serves as a sustainable building block for the enzymatic synthesis of bio-based polyesters. Biologically, BHMf is a secondary metabolite found in various fungi, including <i>Phellinus linteus</i> . Studies have indicated its potential effects against leukemia and its role in antifungal defense mechanisms.
Targets(IC50)	Endogenous Metabolite,Antifungal

Solubility Information

Solubility	H ₂ O: 80.00 mg/mL (624.37 mM),Sonication is recommended. DMSO: 40.00 mg/mL (312.18 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.8046 mL	39.0229 mL	78.0457 mL
5 mM	1.5609 mL	7.8046 mL	15.6091 mL
10 mM	0.7805 mL	3.9023 mL	7.8046 mL
50 mM	0.1561 mL	0.7805 mL	1.5609 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Schneider G, et al. Xylaramide, a new antifungal compound, and other secondary metabolites from *Xylaria longipes*. *Z Naturforsch C J Biosci*. 1996 Nov-Dec;51(11-12):802-6.

Jiang Y, et al. Enzymatic synthesis of biobased polyesters using 2,5-bis(hydroxymethyl)furan as the building block. *Biomacromolecules*. 2014 Jul 14;15(7):2482-93.

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